the inter-ventricular septum, in the neighbourhood of a cusp of the mitral valve. The author divided this bundle by a transverse incision of 2 mm., and found that after this the auricle and ventricle beat each with its own rhythm. This bundle contained no nervous elements.

Dr. Kaiser (Heidelberg) showed that upon pinching off the lower two-thirds of the partially emptied frog's ventricle, this portion remained motionless; but on subsequently clamping the bulbus arteriosus, tension being produced in the ventricle, it recommenced to beat. Dr. Kaiser explains this result by supposing the existence in the frog's heart of a series of neurons which are discharged by an impulse which starts in the sinus, so that the mechanism is that of a reflex action; he believes the pinching destroyed the continuity of the nervous apparatus, while it left the muscle intact.

Prof. Kronecker (Bern) demonstrated in a most striking manner the effect of a sudden arrest of the coronary circulation, by injecting paraffin melting at 39° C. into the descending coronary artery. The heart at once stops and enters into marked fibrillar contraction, from which, except occasionally in young animals, it never recovers. This effect is not produced by ligature of the same artery; this, in Prof. Kronecker's opinion, is due to collateral circulation being at once established. From this experiment Kronecker infers that the cardiac rhythm is due to the activity of some structures which are exceedingly sensitive to sudden cessation of their blood supply; this is not true of muscles or nerve trunks, but is of a nerve plexus or a ganglion cell.

Dr. Magnus (Heidelburg) showed a sphygmograph for use on a dissected out artery.

Prof. Hurthle (Breslau) showed a new method of registering the arterial blood-pressure in man. The arm is made bloodless by means of an Esmark's bandage, and introduced into a phlethysmograph connected with a tambour. Hurthle also showed a method for simultaneously recording the heart movements and rendering audible the heart sounds. The latter was effected by a resonating-box placed against the chest-wall; to the box a wooden tuning-fork was attached; the limbs of this vibrated in unison with the heart sounds, and varied the intensity of a current led through the primary coil of an induction apparatus, and through a microphone placed between the limbs of the fork; a telephone was connected with the secondary coil.

Dr. White (London) made experiments to show that perfect cardiac perfusion was not obtained with a Kronecker's canula as modified by Williams, the actual perfusion in a Williams' only extending to the top of the end-piece.

Dr. Zuntz (Berlin) described a new method for determining the velocity of the blood; it consisted in injecting into the carotid artery, during arrest of the heart produced by stimulation of the vagus, sufficient blood to bring the blood pressure back to the normal. Knowing the amount of blood which has to be injected, and the time this takes, the velocity of the blood, as well as the amount propelled by the heart, can be deduced.

Tuesday Afternoon.—Presidents, Profs. Wedensky and Tigerstedt.—Dr. A. Dastre (Paris) showed that if fresh fibrin is placed in strong neutral saline solutions, one finds after a certain time two globulins in the solution. (1) Globulin coagulating at 54°; (2) Globulin having the properties of serum globulin; and further, that proteose and true peptone are also present. This action of saline solutions on fresh fibrin can be divided into different stages. If fresh fibrin be submitted in the same manner to the action of the digestive juices, the same results are produced; it is then quite justifiable to speak of a "saline digestion" of fibrin. Fibrin submitted to the action of oxygenated water, and to that of micro-organisms, gave the same results. When gelatin is similarly treated, gelatoses are produced, and the gelatin loses its power of coagulation.

Dr. A. Beck (Lemberg) discussed the velocity of blood in the portal vein. The author found that the normal velocity was from 2000 to 2800 cms. per second, and that 0·62–0·79 grm. of blood flowed through 1 grm. of liver tissue in twenty-four hours. The author used Cybulsky's method.

Prof. Berry Haycraft (Cardiff) read a paper on the change of shape of the heart during contraction. The author found it difficult to kill animals with the heart in systole; this he finally did by injections of $HgCl_2$. Killing animals with the heart in diastole presented no difficulty. The animals were frozen immediately after death, and sections of their hearts cut at different levels. The author's results confirmed those of Ludwig and Hesser.

Prof. F. Gotch (Oxford). The discharge of *Malapterurus electricus*. The electrical discharge of the organ evoked in the living fish by mechanical and electrical stimulation was investigated by the capillary electrometer, the frog nerve muscle galvanoscope, and the galvanometer. Each apparently single shock of the organ was found to be multiple in character, showing an initial primary, followed by several secondary electrical outbursts. The primary outburst had a latency of 4/1000″ and a duration of 2/1000″. The E.M.F. = 120 to 200 volts. The secondary effects which follow the primary are plainly perceptible in the isolated organ after killing the fish; hence the multiple character of the single *secousse* is due to the organ itself. Each of the secondary effects occurs at an interval of from 4/1000″–6/1000″ after its predecessor. The primary as well as the secondary effects are monophasic in character; hence a very profound physiological effect is produced.

F. W. TUNNICLIFFE.

FORTHCOMING BOOKS OF SCIENCE.

MESSRS. C. GRIFFIN & CO., Ltd., will shortly issue:—An exhaustive treatise on "Petroleum: the Geographical Distribution, Geological Occurrence, Chemistry, Refining, and Testing, &c.," by Boverton Redwood and Geo. T. Holloway, in two volumes: "The Chemistry of Gas Manufacture: a Handbook on the Production, Purification, and Testing of Illuminating Gas, and the Assay of the Bye-Products of Gas Manufacture," by W. J. Atkinson Butterfield; "Chemistry for Engineers and Manufacturers," by Bloxam Blount and A. G. Bloxam, in two volumes: vol. i. "The Chemistry of Engineering, Building, and Metallurgy"; vol. ii. "The Chemistry of Manufacturing Processes"; "Electrical Measurements and Instruments: a Practical Handbook of Testing for the Electrical Engineer," by Charles H. Yeaman; "Textile Printing: a Practical Manual of the Processes used in the Printing of Cotton, Woollen, and Silk Fabrics," by C. S. Seymour Rothwell, with illustrative specimens (companion volume to the "Manual of Dyeing," by Messrs. Knecht and Rawson); "Bleaching and Calico-Printing: a Short Manual for Practical Men," by Geo. Duerr, with specimens designed specially to show various stages of the processes described; a third edition, revised and enlarged, of the "Outlines of Practical Physiology," by Dr. William Stirling; a fourth edition of "Foods: their Composition and Analysis," and a third edition of "Poisons: their Effects and Detection," both enlarged and revised, by A. Wynter Blyth; an eleventh edition, revised, of Munro and Jamieson's "Electrical Pocket-book"; a third edition, also revised, of Seaton and Rownthwaite's "Marine Engineering Pocket-book"; a new issue, revised, of "Griffin's Electrical Engineer's Price-book," brought up to date and edited by H. J. Dowsing; a second edition, revised, of "The Design of Structures," by S. Anglin; and the thirteenth annual issue of "The Year-book of Scientific and Learned Societies of Great Britain and Ireland," comprising Lists of the Papers read before Societies engaged in Fourteen Departments of Research during 1895.

In the Cambridge University Press's announcements we notice a series of volumes dealing with geographical and cognate subjects, which will be under the general editorship of Dr. F. H. H. Guillemard. The first volume will be by Prof. A. H. Keane, and will treat of Ethnology. This will be followed by "The Geographical Distribution of Mammals," by R. Lydekker. Mr. H. F. Tozer is to write on the "History of Ancient Geography"; and other volumes will deal with the "Renaissance Period of Geographical Discovery," by C. E. Ravenstein, and "Oceanography," by J. Y. Buchanan.; "The Scientific Papers of John Couch Adams," vol. i., edited by Prof. William Grylls Adams, with a memoir by Dr. J. W. L. Glaisher; "The Collected Mathematical Papers of the late Arthur Cayley," vol. ix.; "A Treatise on Spherical Astronomy," by Sir Robert S. Ball; "Catalogue of Scientific Papers compiled by the Royal Society of London," 1874–1883, vol. xi.; a second edition of Heath's "Treatise on Geometrical Optics; "A Treatise on Abel's Theorem," by H. F. Baker; "A Treatise on the Lunar Theory," by E. W. Brown; "An Elementary Treatise on Electricity and Magnetism," by Prof. J. J. Thomson; "A Treatise on Geometrical Optics," by R. A. Herman. In the Pitt Press Mathematical Series: "Euclid," books xi. and xii., by H. M. Taylor; and in the "Cambridge Natural Science Manuals: "Mechanics and Hydrostatics: Part iii. Hydrostatics," by R. T. Glazebrook; "Electricity and Magnetism," by the same; "Solution and Electrolysis," by W. C. D. Whetham; "Sound," by J. W. Capstick; "Fossil Plants: a Manual for Students of Botany and Geology," by A. C. Seward; "The Vetebrate Skeleton," by S. H. Reynolds; "Text-Book of Physical Anthropology," by Prof. Macalister; and a second edition of "Practical Physiology of Plants," by F. Darwin and E. H. Acton.

Messrs. Swan Sonnenschein and Co.'s list includes:—"Text-Book of Embryology: Invertebrates," by Drs. Korschelt and Heider, part i., translated and edited by Dr. E. L. Mark and Dr. W. M. Woodworth, with additions by author and translators; parts ii. and iii. translated and edited by H. T. Campbell; "Text-book of Palæontology for Zoological Students," by Theodore T. Groom, illustrated; "The Indian Calendar," containing complete tables for the verification of Hindu and Muhammedan dates for a period of 1600 years (A.D. 300 to 1900) for the whole of India, by Robert Sewell, of the Madras Civil Service, in collaboration with Sankara Bâlkrishna Dikshit, with a table of eclipses by Dr. Schram; "Practical Plant Physiology," by Prof. Wilhelm Detmer, translated by S. A. Moor; "Introductory Science Text-books"—"Zoology," by B. Lindsay, with illustrations and diagrams; "Elementary Biology," by Dr. H. J. Campbell, second edition, with appendix; "Organic Chemistry," by J. Wade; Young Collector Series: "Fishes," by the Rev. H. A. Macpherson; "Mammalia," by the Rev. H. A. Macpherson; "Birds' Eggs and Nests," by W. C. J. Ruskin Butterfield.

Messrs. Longmans and Co.'s forthcoming books include:—"The Romance of the Woods: reprinted Articles and Sketches," by Fred. J. Whishaw; "The Life of Joseph Wolf, Artist and Naturalist," by A. H. Palmer; "The Life of Sir Henry Halford, Bart., F.R.S., President of the Royal College of Physicians, Physician to George III., George IV., William IV., and to Her Majesty Queen Victoria," by Dr. William Munk; "Darwin, and After Darwin: an Exposition of the Darwinian Theory, and a Discussion on Post-Darwinian Questions," by the late Dr. George John Romanes, F.R.S. Part ii. Post-Darwinian Questions: Heredity and Utility; "The Life and Letters of George John Romanes, F.R.S.," written and edited by his Wife; "Studies of Childhood," by Prof. James Sully; and in a new series of "Physical and Electrical Engineering Laboratory Manuals," "Elementary Physics," by John Henderson; "The Magnetic Circuit in Theory and Practice," by Dr. H. du Bois, translated from the German by Dr. E. Atkinson.

Messrs. George Philip and Son's announcements include:—*Maps*—Topographical Map of the Argentine Republic, in 10 sheets, scale 1 : 2,000,000, by H. D. Hoskold. Geological Map of the British Isles, forming part of the International Geological Map of Europe, scale 1 : 1,500,000. Philip's Topographical Map of England and Wales, in 40 sheets, scale 1 : 200,000. Philip's Library Map of India, scale 1 : 5,000,000. Philip's Large Map of Western Australia, scale 1 : 1,500,000. Philip's New Map of Liverpool, scale 6 inches to 1 mile. *Books*—"Telescopic Astronomy," by A. Fowler; "The Anatomy of the Human Head and Neck," illustrated by means of movable coloured plates, with description, by William S. Furneaux; "The Ox," its external and internal organisation, illustrated by means of movable coloured plates, with description, by Prof. G. T. Brown; "The Oarsman's Guide to the Navigable Rivers and Canals of the British Isles," by Members of the Cruising Club.

Messrs. Crosby Lockwood and Son hope to issue:—"Rural Water Supply: a Practical Hand-book on the Supply of Water and Construction of Water Works for Small Country Districts," by Allan Greenwell and W. T. Curry; "Dangerous Goods: their Sources and Properties, and Modes of Storage and Transport," by H. Joshua Phillips; "Practical Masonry: a Treatise on the Art of Stone-cutting," comprising the construction, setting out, and working of stairs, arches, niches, domes, &c., with fifty lithographic plates, by Wm. R. Purchase; "Refrigerating and Ice-Making Machinery," by A. J. Wallis-Tayler; and new editions of "The Metallurgy of Gold," by M. Eissler, with twenty-five additional plates and working drawings, and chapters on recent milling operations in the Transvaal, and the future outlook in the South African Gold-fields; and "Practical Tunnelling," by F. Simms, with large additions on recent tunnelling practice by D. K. Clark.

We find in the list of the S.P.C.K.:—"The Romance of Science" Series, "The Splash of a Drop," by Prof. Worthington, with numerous diagrams; "The Work of the Spectroscope," by Dr. Huggins; "Time," by Prof. Boys. Manuals of Science—"Physiology," by Prof. Macalister; "Ancient History from the Monuments: Babylonia," by Prof. Sayce, a new edition, edited and brought up to date; "Simple Methods for Detecting Food Adulteration," by J. A. Bower, with diagrams; "Gosse's Evenings at the Microscope," a new edition, revised by Prof. F. Jeffrey Bell; "Iceberg, Prairie and Peak: some Gleanings from an Emigrant Chaplain's Log," by the Rev. Alexander A. Boddy; "The Zoo," vol. iv., by the Rev. T. Wood, with coloured illustrations.

Among Messrs. A. and C. Black's new books will be:—The last part of Prof. Newton's "Dictionary of Birds"; "Artistic and Scientific Taxidermy and Modelling," by Montagu Browne; Vol. i. of "Zoology," by Prof. Ray Lankester; "Text-book of General Pathology and Pathological Anatomy," by Prof. R. Thoma, translated by Dr. Alexander Bruce, two volumes, illustrated; "Introduction to the Study of Fungi," by Dr. M. C. Cooke, illustrated; "Dynamics," by Prof. P. G. Tait; "Milk: its Nature and Composition," by Dr. C. M. Aikman, illustrated; and a new edition of "Black's General Atlas of the World," with twenty-six additional maps of the North American States.

Messrs. Cassell and Co., Limited, promise:—The Century Science Series, edited by Sir Henry Roscoe, F.R.S.; "Charles Lyell: his Life and Work," by Prof. T. G. Bonney, F.R.S.; "British Birds' Nests: How, Where, and When to Find and Identify them," by R. Kearton, with illustrations of nests, eggs, young, &c., in their natural situations and surroundings; "Popular History of Animals for Young People," by Henry Scherren, with thirteen coloured plates and numerous illustrations in the text; "The Year-book of Treatment for 1896," twelfth year of publication, illustrated.

The Religious Tract Society promises:—"Rambles in Japan: the Land of the Rising Sun," by Canon Tristram, with forty-five illustrations; "A Visit to Bashan and Argob," by Major Algernon Heber-Percy, illustrated; "Plants of the Bible," by Rev. George Henslow, illustrated; "A Primer of Hebrew Antiquities," by Rev. O. C. Whitehouse, illustrated; "Hidden Beauties of Nature," by Richard Kerr, illustrated; "Consider the Heavens: a Popular Introduction to Astronomy," by Mrs. William Steadman Aldis, illustrated: "A Popular Handbook to the Microscope," by Lewis Wright, illustrated, "Lighthouses: their History and Romance," by W. J. Hardy, illustrated.

Messrs. Sampson Low and Co. will publish by subscription "Twentieth Century Practice: an International Encyclopædia of Modern Medical Science," by leading authorities of Europe and America, edited by Dr. Thomas L. Stedman, in twenty volumes. Their other scientific publications include the second edition of "A History of Scandinavian Fishes"; "A Manual of Obstetric Nursing," by Marian Humfrey, vol. ii., and new editions of Hofmann's "Treatise on Paper-Making," and Davis's "Practical Treatise on the Manufacture of Brick, Tiles, and Terra-Cotta," both fully illustrated.

Messrs. Whittaker and Co. announce the following works:—"Transformers for Single and Polyphase Alternating Currents," by Gisbert Kapp, translated from the German; "The Inspection of Railway Material," by G. R. Bodmer; "The Chemist's Compendium, a Pocket-book for Pharmacists and Students," by C. J. S. Thompson; "Modern Printing, a complete handbook of printing," by J. Southward; a new and enlarged edition of "Coal-pits and Pitmen," by R. Nelson Boyd; "A Practical Trigonometry for the use of Engineers, Architects, and Surveyors," by Henry Adams.

Messrs. Rivington, Percival, and Co. will issue:—"Clinical Illustrations of the Diseases of the Fallopian Tubes and of Tubal Gestation," by Dr. C. J. Cullingworth; "Mensuration," by Rev. A. D. Clarke; "Beginner's Text-Books of Science" Series, "Chemistry," by G. Stallard; "Geology," by C. L. Barnes; "Electricity and Magnetism," by L. Cumming; "Heat," by G. Stallard; "Mechanics" (treated experimentally), by L. Cumming; "Physical Geography," by C. L. Barnes.

In Messrs. Putman's Son's list we find:—"Wild Flowers of the North-Eastern States," drawn and carefully described from life, by Margaret C. Whiting and Ellen Miller, with 308 illustrations; "A Natural Method of Physical Training," by Edwin Checkley, illustrated from photographs, new edition; "The Law of Psychic Phenomena," a working hypothesis for the study of hypnotism, spiritism, mental therapeutics, &c., by T. J. Hudson.

The Clarendon Press has in active preparation:—"A New English Dictionary," portions of D, edited by Dr. J. A. H. Murray, and of F, edited by H. Bradley; "British Moralists of the Eighteenth Century," edited by L. A. Selby-Bigge, two vols.; "Index Kewensis," compiled at the expense of the late C. R. Darwin, under the direction of Sir Joseph D. Hooker, by B. Daydon Jackson, two vols.; and "An Introduction to the Algebra of Quantics," by E. B. Elliott.

Messrs. G. Bell and Sons have in the press:—"The Mechanism of Men-of-War," by Fleet-Engineer R. C. Oldknow, R.N.; "Torpedoes, Torpedo Boats, and Torpedo Warfare," by Lieut. J. Armstrong, R.N.; "Naval Gunnery," by Capt. H. G. Garbett, R.N.; "Naval Architecture, the Designing and Construction of a Warship," by J. J. Welch; "Logic: a Handbook for the Use of Students," by F. Ryland; "Gas Manufacture," by J. Hornby.

Messrs. James MacLehose and Sons, Glasgow, have in preparation a volume on "Deaf-mutism, including Chapters on the Education of Deaf Mutes," by Dr. J. K. Love and W. H. Addison; a new edition of a "Treatise on Diseases of the Ear," by Dr. Thos. Barr; "An Account of the Institution and Progress of the Faculty of Physicians and Surgeons of Glasgow," by Alexander Duncan.

Messrs. W. Blackwood and Sons' announcements include:—"Introductory Text-Books of Meteorology," by Dr. A. Buchan, new edition, with coloured charts and engravings; Page's "Advanced Text-Book of Geology," new edition, revised and enlarged by Prof. Lapworth; Dr. Mackay's "Elements of Physiography," rewritten and enlarged, "Elementary Algebra," "Mental Arithmetic."

The following additions will be made to Messrs. George Newnes' "Library of Useful Stories":—"The Story of the Earth in Past Ages," by Prof. H. G. Seeley, with original illustrations from the author's collection; and "The Story of the Solar System," by George F. Chambers.

Mr. Edward Arnold will issue:—"The Exploration of the Caucasus," by D. W. Freshfield, in two volumes, illustrated; "Cycling for Health and Pleasure," by L. H. Porter, revised; and "Strength; or, the Development and Use of Muscle," by C. A. Sampson.

Messrs. W. and R. Chambers's list contains:—Eminent Engineers: "Lives of Watt, Stephenson, Telford, and Brindley"; "Thomas Alva Edison: the Story of his Life and Inventions"; a re-issue of Chambers's Encylopædia, in ten monthly volumes.

Mr. Fisher Unwin gives notice of:—"The Evergreen: a Northern Seasonal," part ii.; "Electricity for Everybody," illustrated. The Criminology Series.—(2) "Criminal Sociology," by Prof. E. Ferri; (3) "Our Juvenile Offenders," by W Douglas Morrison.

Messrs. A. D. Innes and Co. will publish:—"A Naturalist in Mid-Africa," by G. F. Scott Elliot, with numerous illustrations.

To Mr. Walter Scott's "Contemporary Science Series" will be added "Evolution in Art, as illustrated by the Life-Histories of Designs," by Prof. A. C. Haddon.

Messrs. W. H. Allen and Co. have in preparation:—"Ferns, British and Foreign," by John Smith, and a new edition of Herschel's "Popular Lectures on Scientific Subjects."

In Messrs. Macmillan and Co.'s announcements we find the following:—"Sir Joseph Banks's Journal," selections edited by Sir Joseph Hooker, K.C.S.I., F.R.S.; "Sketches in Sport and Natural History," by the late Dr. George Kingsley, with memoir by his son Charles Kingsley; "A History of Mankind," by Prof. Friedrich Ratzel, translated from the second German edition by A. J. Butler, with preface by Dr. E. B. Tylor, with thirty coloured plates, maps, and numerous illustrations in the text, in thirty monthly parts, and in three vols.; "Studies in the Art Anatomy of Animals," by Ernest E. Thompson, illustrated; "The Cambridge Natural History," edited by S. F. Harmer and A. E. Shipley, vol. v., Peripatus, by A. Sedgwick, F.R.S., Centipedes, &c., by F. G. Sinclair, Insects, by D. Sharp, F.R.S.; "The Structure and Development of the Mosses and Ferns (Archegoniatæ)," by Dr. Douglas Houghton Campbell; "The Scenery of Switzerland," by Sir John Lubbock; "A Handbook of British Lepidoptera," by Edward Meyrick; "The Structure of Man," by Prof. Wiedersheim, translated by H. M. Bernard, and edited by Prof. G. B. Howes, illustrated; "A Text-book of Comparative Anatomy," by Dr. Arnold Lang, translated into English by Henry M. Bernard and Matilda Bernard, vol. ii.; "Dictionary of Chemical Solubilities," by Dr. Comey; "A System of Medicine," edited by Dr. T. Clifford Allbutt, F.R.S., five vols; "A System of Gynæcology," edited by Dr. William Playfair and Dr. T. Clifford Allbutt, F.R.S.; "Elements of Palæontology," by Prof. Karl A. von Zittel, translated and edited by Dr. Charles R. Eastman; "Principles of Mechanics," by the late Prof. H. Hertz, translated by D. E. Jones; "Evolution and Man's Place in Nature," by Rev. Dr. Henry Calderwood, second edition, in great part rewritten; "Miscellaneous Papers," by the late Prof. H. Hertz, translated by D. E. Jones; "Electro-Physiology," by Prof. W. Biedermann, translated by Miss F. A. Wells; "The Scientific Basis of Analytical Chemistry," by Prof. Wilhelm Ostwald, translated by Dr. George MacGowan; "Text-book of Botany," by Prof. Strasburger and others, translated by Dr. H. C. Porter; "The Life of Agassiz," by Jules Marcou, two vols.; "Columbia College, Contributions to Philosophy, Psychology, and Education"; Columbia University Biological Series: "Fishes, Living and Fossil," by Dr. Bashford Dean; Columbia University Press Publications: "Statistics and Sociology," by Prof. Richmond Mayo-Smith; "An Atlas of Fertilization," by Prof. Edmund B. Wilson; "Elements of Geometry," by George C. Edwards; "The Theory of Sociology," by F. H. Giddings; "Alternating Currents," by D. C. Jackson; "A Laboratory Course in Experimental Physics," by W. J. Loudon and J. C. McLennan; "An Exercise Book of Elementary Practical Physics," by R. A. Gregory; "Elementary Text-book of Physical Geography for High Schools," by R. S. Tarr.

GEOLOGY AT THE BRITISH ASSOCIATION.

AFTER the presidential address, which was of great local interest, and listened to with much attention by a large audience, Mr. Harmer read two papers bearing on the Coralline and Red Crags. This veteran geologist, who, with the late Mr. Searles Wood, jun., did so much to unravel the age of the various Tertiary deposits in East Anglia, rendered much service to the Section, not only by the contribution of papers and in the discussions, but by attending the numerous excursions, and placing his knowledge and experience at the service of those less acquainted with Pliocene and Pleistocene rocks.

Taking the 240 more abundant molluscan species found in the Coralline Crag apart from those which are represented by rare or even unique species, he finds that their assemblage points, more distinctly than the mere aggregate of fossils, to the Southern character of the fauna; 57 per cent. being extinct, only one species is not found south of Britain, and not less than 36 per cent. are characteristically Southern. The following summary gives the principal facts on which this conclusion is based.

Summary of the abundant and characteristic Species of Mollusca occurring in the Coralline Crag.

Not known as living (37 per cent.)	89
Living in distant seas	8
,, ,, the Mediterranean	133
,, ,, the West European area	9
,, not south of Britain	1
Total	240

Species of European Mollusca occurring abundantly in the Coralline Crag.

Southern and not British (28 per cent.)	42
British (rare) and Southern	9
(35 per cent.)	51
British (characteristic) and Southern	91
,, and not Southern	1
Total	143
Total number of species	436